

3 CLAIMS

1) Packaging system (10, 20), comprising:

An electronic device (100) that in combination with an electronic device (200) optimizes the use of available energy in the packaging system, said electronic device (100) comprising;

control system (101); and

transmitter (106) connected to said control system for sending signals to the electronic device (200) being interpretable as set up information, characterized in that said control system (101) further comprises:

receiver (107) connected to said control system for receiving signals from the electronic device (200) indicative to the proximity of said set up information, characterized in that said control system (101) further comprises:

control panel (108) connected to said control system for the set up of control system information interpretable as set up information, characterized in that said control system (101) further comprises:

measuring device (109) connected to said control system interpretable as external information, characterized in that said control system (101) further comprises:

microprocessor (102) connected to said control system for the processing of set up information, received indicative information and external information, characterized in that said control system (101) further comprises:

energy source (110) connected to said control system distributing energy in proximity of received indicative information and external information.

2) An electronic device (200) for sensing the substance (20) within or in close proximity of the packaging system, said electronic device (200) in turn comprising;

control system (201); and

transmitter (206) connected to said control system for sending signals to the electronic device (100) being interpretable as indicative information, characterized in that said control system (201) further comprises:

receiver (207) connected to said control system for receiving signals from the electronic device (100) indicative being interpretable as set up information, characterized in that said control system (201) further comprises:

measuring device (209) connected to said control system interpretable as indicative information, characterized in that said control system (201) further comprises:

microprocessor (202) connected to said control system for the processing of, set up information, indicative information and external information.

- 3) Electronic device (100) according to claim 1, characterized in that said control system (101) further comprising a memory (103) for set up information and external information.
- 4) Electronic device (100) according to claim 1, characterized in that said control system (101) further comprising a timer circuit (105) for time based system information that may be synchronized with control system (201).
- 5) An electronic device according to claim 1, characterized in that said control system (101) further comprising recording of set up information, indicative information and external information (101A).
- 6) Electronic device (200) according to claim 2, characterized in that said control system (201) further comprising a memory (203) for set up information, indicative information and external information.
- 7) Electronic device (200) according to claim 2, characterized in that said control system (201) further comprising a timer circuit (205) for time based system information may be synchronized with control system (101).
- 8) An electronic device according to claim 2, characterized in that said control system (201) further comprising recording of set up information, indicative information and external information (201A).
- 9) Method for optimization of available energy is controlled by the electronic device (100), comprising the steps of:

detecting signals from electronic device (200) attached in close proximity to substance (20) indicative to set up information: and detecting signals from measuring device (109) indicative as external information: and verifying proper operation of said available energy.

10) Method according to claim 9, characterized by further steps of monitoring temperature of the substance (20) by a separate electronic device (200) attach in close proximity of the substance and more then one electronic device (200) may be used.

11) Method according to claim 9, characterized by further steps of communication functions between the electronic device (100) and (200) in the exchange of information required for the optimization of available energy.

12) Method according to claim 9, characterized by further steps of monitoring temperature outside and inside the packaging system by measuring devices (109) and (209) indicating energy losses caused by a difference in external information, set up information and indicative information by determining if said indicative information is within set up information and if indicative external information needs to be compensated for, i.e. energy losses through the packaging system (10) itself.

Method for activation of electronic device (200) may be controlled by the electronic device (100), comprising the steps of setting upper and lower temperature alarms (108B and 108C), transmitting set up information and verifying proper operation of electronic device (200).

13) Method for de-activation of electronic device (200) may be controlled by the electronic device (100), comprising the steps of transmitting de-activation information from control system (101) to electronic device (200) and verifying de-activation of electronic device (200).